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USSE HAS UNTAPPED RESOURCES FOR CONSTRUCTION MATERIALS INDUSTRY

CLAY GYPSUM ABUNDANT IN DURKMEN DESERT AREA -- Promyshleonost' Stroitel'nykh Materialov, 29 Sep 50

Many parts of the Turkmen SSR, especially areas of the Kara Kumy desert, have considerable deposits of clay gypawa or, as it is called in Central Asia, gazha or ganth. This material consists of gypaum and loss with admixtures. Clay-gypaum deposits are found mear ancient river terraces and dry lakes of the Kara Kumy desert. The layers are 3 to 9 meters thick and the deposits cover areas of approximately 25 to 50 kilometers.

In regard to its technical properties, play gypsum is not inferior to Bygsum. A few minor enterprises of local industry in Turkmenia produce a construction material from clay typeum by firing it in pits at a moderate temperature. The firing is done over a period of 2 hours at a temperature of 130-150 degrees. After this, the material is easily pulverized and acreened. Even with this primitive production method, the binding material is entirely satisfactory. It has a compression strength of over 100 kilograms per square centimeter and a tensile strength of 12 to 15 kilograms per square centimeter. As a result of laboratory research, it has been possible to improve the technical properties of clay gypsum, increasing the compression strength to 300 kilograms per square centimeter and the tensile strength to 25-30 kilograms per square centimeter. By adding a bark extract or Central Asian shrub to clay-gypsum product, it is made water-resistant These technical properties make it possible to use clay gypsum in construction as a good substitute for brick, timber, and a number of binding materials. Clay gypsum can be used in the manufacture of wall blocks for small houses, face tiles, dry plaster, various architectural parts, and finally as a mortar. Clay-gypsum products can replace up to 60 percent of wooden parts in construction.

Clay-gypsum construction parts are made by the casting method. For extra strength, they are reinforced with laths or reeds. Various mineral or organic materials, such as sand, alag. shavings, reeds, etc, are added to the product for economical reasons.

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Clay gypsum is one of the oldest binding materials known in Central Asia. It was used by Turkmens as far back as the 10th century. An arched bridge built ecross the Murgab River in the like century with the use of clay-gypsum has survived for 5 centuries and is proof of the high qualities of this local construction material.

This warrenial is of special importance at present, when extensive construction work has begun in Central Asia. Tonetruction of the Main Turkmen Canal and of new cities and bulkhor millages requires hoge quantities of local building materials. The catal is to out across the Mata-Pro Plateau and the Kara Kumy desert, where the clay-gypsum deposits are located. Clay gypsum is easily quarried and processed, a fact which makes it an inexpensive material.

The Moscow Institute "Giprogips" (State Institute for Flanning Enterprises of the Gyasom Industry; has come authorized to investigate the possibilities of utilizing clay gapsum in the construction of the Main Tuckman Canal. Plans are to be worked out in the near future - F GOST plan and technical specifications for only gypsum will also be drawn up.

FAIL TO EXPLOIT OPIMEAN RESCURTES - Promyshlentost Stroatelingkh Materialov, 29 Sep 50

The Crimean Object has rich deresits of minorals for the production of good, inexpensive construction materials such as bricks, tiles, wall stone, and all kinds of facing materials. The oblast has over 130 deposits of shell limestone, about 30 deposits of marble like limestone of various colors, numarous deposits of marl. gravel. and gypoun store, and an unlimited quantity of high-grade clay, suitable not only for brack and tile production but also for hollow caramic products used as fating material. However, all of these mineral resources are being very poorly utilized. Scone quarrying is organseed only in one third of the entire trea of limestone deposits and it is done by small ortals of industrial temperatives, construction organizations, sorkhotes, and small plants of the Primean Dolant Administration of Construction Materials Industry | In most cases quarrying is done by manual labor. This results in lex labor productivity and high production tests. For example, at the Liverskiy quarry of the Staferopel Favon Industrial Combine, one stone block costs about a mables, shareas the cost of a simular block at the mechamired Ukrainlan plant is 60-70 kopoks, large deposits of Linestone are being exploited without proper to choical supermission and now therefore in an extremely neglected torultion. For example, in the region of Perekop where the Ministry of Chemical Industry is in theres of stone quarrying, valuable deposit: of limestone ero in such puer condition that it is impossable to exploit *bem eay further

The same situation exists to sand quarris. There are only five small sand quarries operating to the satire oblast. They are not mechanized and are scattered over various organizations. As a result, Simferopol', Kerch, and crites and villages of the southern Grimean coast have a shortage of sand, which should actually be a cheap and plentiful building material. The sand which construction organizations of Simferopol' hauf from a distance of 20-35 kilometers contains up to 20 percent clay and other harmful ingredients. Due to transport coats and the low quality of the sand, its cost is increased up to 10 percent.

The oblast also has large reserved of marble-like limestone, which is well-known to architects and builders. There was a time when this remarkably decorative facing material was in great demand both in the oblast and other parts of the country. However, local organizations and the Ministry of Construction Materials Industry RBPSB have apparently forgotten all about it. The limestone-quarrying enterprises destroyed during the war have not been restored and new ones are not being organized.

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An entirely forgotten branch of industry in the Orimean Oblast is the production of steps: tiles: etc. of diorits: Pafors the var, diorite of Aliminskiy Rayon was shown at international exhibitions as one of the types of high-grade building materials

The leage increase in industrial and civilian construction in the Crimean Oblast has resulted in an increasing demand for tement. Thousands of tons of coment are shapped to the Grimos from places hundreds of kilometers distant. It would be possible, however, to organize coment production at two of the mail deposits situated near the railroad line and thereby provide a sufficient supply of coment for the oblast.

There is also a shortage of greater for construction purposes. The new gypsum plant provides only about 30 percent of the required gypsum. Serious attention should be given to lake gypsum which is found in Sakskiy Reyon. It would be cossible to obtain many toperands of tone of high-grade gypsum at this location without any carital coveriments.

Schentific institutes should participate more sitively in the development of the Crimean construction materials industry. There are a number of scientific research abstitutes in the Crimea, including the Affiliate of the Academy of Sciences USSR and the Crimean Scientific Passearch Laboratory of Construction Materials Industry under the Administration of Construction Materials Industry. However, the work of these institutes is not coordinated,

The Ministry of Construction Materials Industry RSFSR must give serious consideration to the utilization of Crimean mineral resources and give the necessary aid to the oblast administration.

CENTRAL QUARRIES NEED REORGANIZATION -- Vechernyaya Moskva, 15 Aug 50

It is necessary to expand the quarrying and processing of nonmetallic minerals. This branch of industry has been greatly neglected. The principal quarries of Mosrow Oblast and adjoining oblasts should be subordinated to the Ministry of Construction Materials Industry USSP, reinstating the "Rossnerud" Trust which existed before the var

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